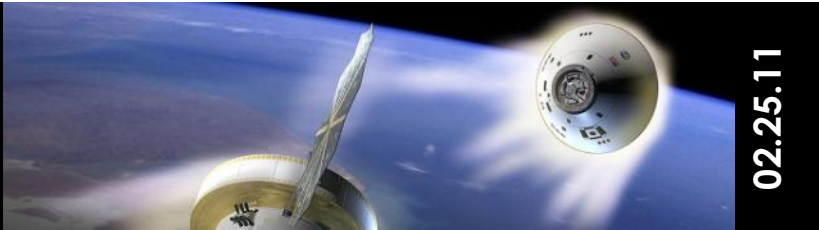


ORION

CREW EXPLORATION VEHICLE

WEEKLY ACCOMPLISHMENTS



The Lockheed Martin Crew Module Ground Test Article Team in Denver, Co has begun performing “Fit checks” on the test article.

The Crew Module Ground Test article has been moved onto the air bearing system (shown right) and has gone through several Fit Checks of the Thermal Protection System backshells. In addition, the team completed fabrication of the heatshield carrier structure (shown above) which has now been moved to the Vertical Test Facility where it will be fitted for and marked for match drilling and then installed onto the Crew Module Ground Test Article.





The first set of Power and Data Units (PDU) test articles has arrived at the Lockheed Martin PDU laboratory in Denver, Co.

This Development Test Article (components shown above) is built to flight specifications and verifies that the CAD models and designs are correct and fit together properly. The Power and Data Units are part of the overall vehicle computer system and is the connecting point for the cables that distribute information and commands to the spacecraft.

The STORRM team participated in an STS-134 Flight Day 3 Rendezvous Joint Integrated Simulation.

This included end-to-end simulations of the STORRM hardware and operations with flight crew, Mission Operations, and STORRM engineering team support from the Payload Operations Control Center. Pictured right (left to right) are Sean Maguire, Aaron Cannon, and Heather Hinkle along with other STORRM team members in the background.



Orion project, in collaboration with the ISS HUNCH program, is providing real-world engineering projects and mentoring to drafting, design, and industrial arts students at Cy Ranch High School.

Students are adapting Orion spacecraft component designs to make them suitable for use in the Orion mockups in Building 9 at JSC. The students learn to work together with their mentor as well as cross-discipline CAD and industrial arts students and faculty to produce designs that can be fabricated in the school's machine shop. Shown left is Cy Ranch drafting student, Kyle Thomson, working with Orion Crew Systems Integration Manager, Mel Friant, to draft a design for a mockup of the LOCI docking camera package to be used in human-in-the-loop evaluations in the Orion Medium Fidelity Mockup.

